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(54) Title: MOLECULAR DETECTOR

(57) Abstract: Described herein are embodiments of a method and device comprising an electronic charge detector capable of detecting the presence of small quantities of electric charge generated through a universal signal generation process that is configured to detect any biological agents and biomolecular targets of interest. Electric charge results from signal molecules binding to affinity molecules that are attached to a detection surface. Electronic circuits are configured to detect the induced electric charges on the detection surface. Additional electronic devices then process useful quantitative data regarding specific biomolecular interaction events.

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